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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | |
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| 10/010,723 | 12/06/2001 | Mark G. Allen | BVTP-P04-506 | 4309 | |
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| AGNES S. LEE ROPES & GRAY | | | THOMPSON, I | THOMPSON, KATHRYN L | |
| •••• | ATIONAL PLACE | ART UNIT | PAPER NUMBER | | |
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| | | | DATE MAILED: 03/09/2004 | | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| Office Action Summary Examiner | • | | Application No. | Applicant(s) | | | |
|---|---|---|-------------------------|--------------|--|--|--|
| Nathryn L Thompson 3763 | | | 10/010,723 | ALLEN ET AL. | | | |
| The MAILING DATE of this communication appears on th cov r sheet with the correspondence address Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. Estimates the time has been suitable without the special provides of 27 CFR1.136(a). In no event, however, may a reply be timely filed directly (s) (MONTHS from the mailing date of this communication. If the period for reply is specified above, the maximum statutory period will apply and will expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply whithin has et or advanded profit of reply with 50 frost or searched period for reply with 50 frost or searched period will expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply within the set or searched period for reply with 50 frost or searched period will expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply within the set or searched period vill expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply within the set or searched period vill expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply within the search the statutor, and the statutory period vill expire 30X (6) MONTHS from the mailing date of this communication. Failure to reply within the search the statutory period vill expire 30X (6) MONTHS from the mailing date of this communication. Find the search t | | Office Action Summary | Examiner | Art Unit | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ③ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13(q). In no event, however, may a reply be timely filled after 51% (c) MONTHS from the mailing date of this communication. - If the period for reply specified above, its maximum saluture prior of vall perior of the reply specified above, the management of this communication. - If the period for reply specified above, the management of this communication. - If the period for reply specified above, the maximum saluture prior of vall perly minimum of thinty (30) days, will be considered timely. - If No period for reply is period above, the maximum saluture, prior of vall perly mention in the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ARAKDONED (35 U.S.C. § 133). - Any reply reversed by the Office later than there mentions after the mailing date of this communication, even if timely filed, may reduce any summer part of the period vall perio | | | Kathryn L Thompson | 3763 | | | |
| THE MAILING DATE OF THIS COMMUNICATION. - Edenoisons of time may be available under the provisions of 37 CFR 1.135(a). In no event, however, may a reply be limely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply is specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If MO period for reply is specified above in the state in thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If all the proper is specified above in the state in thirty (30) days, a reply within the state of the period of reply will be become ARANDONED (38 U.S.C.§ 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any search guarantee. Status 1) Responsive to communication(s) filed on 03 September 2003. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) | ·· | | | | | | |
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| 2. Certified copies of the priority documents have been received in Application No | | | | | | | |
| | | | | | | | |
| 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | |
| 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) | | | | | | | |
| a) ☐ The translation of the foreign language provisional application has been received. 15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. | | | | | | | |
| Attachment(s) | | | | | | | |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4) Interview Summary (PTO-413) Paper No(s) 5) Notice of Informal Patent Application (PTO-152) 6) Other: | 2) Notic | e of Draftsperson's Patent Drawing Review (PTO-948) | 5) Notice of Informal | | | | |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1, 49, 54-66, 70, and 71 are rejected under 35 U.S.C. 102(e) as being anticipated by Eicher et al (US 6,132,755). Eicher et al teach a device comprising one or more microneedles having at least one substantially annular channel therethrough and having a length between about $1\mu m$ and 1mm and a diameter between about $1\mu m$ and $100\mu m$ and a substrate to which the one or more microneedles is attached (Figure 1).

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 50-53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eicher et al. Eicher et al does not disclose expressly that the diameter of the one or more microneedles is between about 10 μm and 30 μm, 20 μm and 50 μm, 30 μm and 100 μm, and wherein the diameter of the substantially annular channel is between about 3 μm and 80 μm. At the time the invention was made, it would have been an obvious matter of design choice to a person of ordinary skill in the art to make the measurements of the aforementioned diameters because Applicant has not disclosed that making microneedles with these specific measurements provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well.

Claims 67 and 68 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eicher et al in view of Gerstel et al (US 3,964,482). Eicher et al teaches all of the claimed limitations except the one or more microneedles including a non-biodegradeable polymer selected from polycarbonate, polymethacrylic acidm ethylenevinyl acetate, polytetrafluorethylene, and polyesters. Gerstel et al teach the one or more microneedles including a non-biodegradeable polymer selected from polycarbonate, polymethacrylic acidm ethylenevinyl acetate, polytetrafluorethylene, and

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polyesters. It would have been obvious to one with ordinary skill in the art to use the teachings of Gerstel et al to modify the invention of Eicher et al and include non-biodegradeable polymers as a material that the microneedles can be made of since non-biodegradeable polymers are notoriously well known in the art as possible materials from which medical devices can be fabricated.

Claim 69 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eicher et al in view of Godshall et al (US 5,879,326). Eicher et al teaches all of the claimed limitations except wherein the one or more microneedles are formed by a micromachining technique. Godshall et al teach wherein the one or more microneedles are formed by a micromachining technique (Column 3, Lines 44-48). It would have been obvious to one with ordinary skill in the art to use the teachings of Godshall et al to modify the invention of Eicher et al to include that the microneedles are formed by a micromachining technique since micromachining is notoriously well known in the art as a method of fabrication for microneedles.

Claim 72 is rejected under 35 U.S.C. 103(a) as being unpatentable over Eicher et al in view of Godshall et al. Eicher et al discloses all of the claimed limitations except a transport control mechanism for generating an ultrasonic force gradient for causing the material to move across a biological barrier. Godshall et al does disclose a transport control mechanism for generating an ultrasonic force gradient for causing the material to move across a biological barrier (Column 2, Lines 7-16). It would have been obvious to one with ordinary skill in the art to use the teachings of Godshall et al to modify the invention of Eicher et al since according to Godshall et al the use of a transport control

mechanism that generates an ultrasonic force gradient is used to increase the migration of the drug across the skin barrier and improve absorption.

Response to Arguments

Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kathryn L Thompson whose telephone number is 703Application/Control Number: 10/010,723 Page 6

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305-3286. The examiner can normally be reached on 8:30 AM - 6:00 PM: 1st Friday Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 703-308-3552. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0858.

KLT

BRIAN L. CASLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700